

**PATENT RESEARCH INQUIRY FORM** PRIF-1

DEPARTMENT Re-use

TEAM 6

PATENT # 06052242

WEEK DATE 12/13/04

**RESEARCH REQUEST**

QA-<sup>①</sup> No Text Endorsement Number

② Jacket - SubClass? (10?)

Action Requested by: KRH Date: 2/15/05

**DESCRIPTION OF RESOLUTION**

Please complete Disposition section

① Entered

② OK as is

Action Requested by: [Signature] Date: 2/18/05

**DISPOSITION**

☒ **MAKE CORRECTION:**

☐ In Production

☐ External Department: \_\_\_\_\_  
Please specify department and ward to group

☐ **USE AS IS**

☐ **COMMUNICATION:**

☐ Distribute Department wide as example only

☐ Manual Improvement/Suggestion Form Needed\*

\*Response is for this patent only unless this box is checked

☐ **NON CONFORMING:**

☐ Return on Query

☐ Return to FMF

*"Do not release non-conforming files"*

INVALID

Pat. No. 06052242 - 2  
Issue Date: 12/13/04

Group ID: F Page 1  
User ID: KXHowlan KS: 4,930

Invalid [Checklist: Posn:1 ]

Text Endorsement is required

Marker [Checklist: Posn:1 ]

QA - No Text Endorsement Number

Invalid [Text Endorsement: Posn:1 ]

is required

Warning [Pages Of US References:]

page 2 has no references

page 3 has no references

page 4 has no references

page 6 has no references

page 8 has no references

Warning [Pages Of Foreign References:]

page 1 has no references

page 2 has no references

page 4 has no references

page 5 has no references

page 8 has no references

Warning [Pages Of Other References:]

page 5 has no references

page 6 has no references

Warning [Blue Slip Class Versus Class:]

has Class from Blue Slip that does not match Class from Jacket

Warning [Blue Slip Sub Class Versus Sub Class:]

has SubClass from Blue Slip that does not match SubClass from Jacket

58-58

CHECK LIST

Rule 47      Continuing Data      PCT      Disclaimer

No              Yes                              No              No

Microfiche Appendix              CPA tag

No                              No

Foreign Priority Claimed: No  
Acknowledged: No

State Code: NY      Country Code:

Text Endorsement:      08/023900 080593

ok

JACKET

<u>SERIAL NUMBER</u>	<u>FILING DATE</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>GAU</u>
08/102,390	08/05/93	435	10	1632

FOREIGN PRIORITY  
Country      Document Number      Date

DISCLAIMER

/ /

TITLE

Production of proteins using homologous recombination

MICROFICHE APPENDIX

ASSISTANT EXAMINER:

First:                              Middle:                              Last:

PRIMARY EXAMINER:

First:                              Middle:                              Last:

Shin-Lin                              Chen

CLAIMS ALLOWED

Total      Print

1              1

DRAWINGS

Sheets      Figures      Print

4              4              N

=====

BLUE SLIP INFORMATION

<u>SERIAL NUMBER</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>GAU</u>
08/102,390	424	93.21	1632

<u>INDEP. CLAIMS</u>	<u>TOTAL CLAIMS</u>
1	1

=====

BLUE SLIP (Page 1)

INTERNATIONAL CLASSIFICATION

Class      SubClass

A01N      63/00

C12N      15/63

C07H      21/04

CROSS-REFERENCES

Class      SubClass

435      455

536      23.5;24.1

=====

TERM EXTENSION

0

FIELD OF SEARCH

Class      SubClass

435 172.3;69.1;455

424 93.21

536 23.5;24.1

=====

OATH

INVENTOR NAME

First: Arthur Middle: I. Last: Skoultchi Signed: Yes

City: Larchmont

State: NY ZIP Code: Country: Foreign ZIP:

=====

PCT INFO

=====

CONTINUING DATA (Page 1)

<u>LINE</u>	<u>CODE</u>	<u>SERIAL NUMBER</u>	<u>FILING DATE</u>	<u>STATUS</u>	<u>DOCUMENT NO.</u>	<u>ISSUE DATE</u>
104	71	07/787,390	11/04/1991	03		/ /
105	82	08/432,069	11/06/1989	03		/ /

=====

REFERENCES (Page 1) SERIAL NUMBER: 08/102,390  
FORM 892


U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
4,656,134	04/1987	Ringold	435	91

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Muller et al Eur. J. Biochem <sup>10chem A</sup> 176:485, 1988. 

-----

Thomas et al Cel<sup>1A</sup> 51: 503, 1987.

Palmer et al PNAS 84: 1055, 1987.

Boshart et al Sequence Svicia Transcript & Transl. pp. 511-520, 1985.

Foechery et al Gene 45: 101, 1986.

Nindi et al PNAS 85: 3845, 1988.

Frohvn et al Cell 56: 145, 1989.

Smithers<sup>re</sup> et al Nature 317: 231, 1985.

=====

REFERENCES (Page 2) SERIAL NUMBER: 08/102,390  
FORM 892

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Nelson et al J of MD<sup>01</sup>. Appl Gen 2(6): 563, 1984.

Thompson et al Cell 56: 313, 1989.

Andern Science 226: 401, 1984.

=====

REFERENCES (Page 3) SERIAL NUMBER: 08/102,390  
FORM 892

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

9109955	07/1991	WOX		
---------	---------	-----	--	--

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

ISS <sup>15 A</sup>  
Lecky et al CSH SQB 49: 183, 1984.

-----  
Mansour et al Nature 336: 348, 1988.

-----  
Palmer et al PNAS 88: 1330, 1991.

=====

REFERENCES (Page 4) SERIAL NUMBER: 08/102,390  
FORM 892

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

15 A  
Lecky et al CSH SQB 49:183, 1984.

-----  
Andersa Science226: 401, 1984.

-----  
Thomas et al Cell 51: 503, 1987.

-----  
Soy et al PNAS 84: 6820, 1987.

=====

REFERENCES (Page 5) SERIAL NUMBER: 08/102,390  
FORM 892

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

5,272,071	12/1993	Chappel	435	172.3
-----------	---------	---------	-----	-------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 6) SERIAL NUMBER: 08/102,390  
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

WO 90/11354	10/1990	WOX		
-------------	---------	-----	--	--

2646438	03/1989	FRX		
---------	---------	-----	--	--

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 7) SERIAL NUMBER: 08/102,390  
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

4,950,599	08/1990	Bertling		
-----------	---------	----------	--	--

<5,1>5,272,071	12/1993	Chappel		
----------------	---------	---------	--	--

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

0 278 659	08/1988	EPX		
-----------	---------	-----	--	--

0 320 500	06/1989	EPX		
-----------	---------	-----	--	--

WO 88/05077	07/1988	WOX		
-------------	---------	-----	--	--

WO 89/09256	10/1989	WOX		
-------------	---------	-----	--	--

WO 90/06363	06/1990	WOX		
-------------	---------	-----	--	--

WO 90/14092	11/1990	WOX		
-------------	---------	-----	--	--

WO 91/02070	02/1991	WOX		
-------------	---------	-----	--	--

WO 91/06666	05/1991	WOX		
-------------	---------	-----	--	--

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)



Brent et al.. (1989), [37 Functional characterization of the rat growth hormone promoter elements required for induction by thyroid hormone with and without a co-transfected [62 [0 type thyroid hormone receptor[38 , J. Biol. Chem. 264:178-182.

-----  
Janniere et al., (1985), [37 Stable gene amplification in the chromosome of [i Bacillus subtilis[1 [38 , Gene 40:47-55.

-----  
Johnson et al., (1989), [37 Targeting of nonexpressed genes in embryonic stem cells via homologous recombination[38 , Science 245:1234-1236.

-----  
Larsen et al., (1986), [37 Repression mediates cell-type-specific expression of the rat growth hormone gene[38 , PNAS (USA) 83:8283-8287.

-----  
Le Mouellic et al., (1990), [37 Targeted replacement of the homeobox gene [i Hox-3.1 [1 by the [i Escherichia coli lacZ [1 in mouse chimeric embryos[38 , PNAS (USA) 87:4712-4716.

-----  
Lewin, B. in: Genes, 1983, Oxford University Press, NY, NY, p. 188-194.

=====  
REFERENCES (Page 8) SERIAL NUMBER: 08/102,390  
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Old and Primrose, in: Studies in Microbiology, vol. 2: Principles of Gene Manipulation, an Introduction to Genetic Engineering, 2nd Ed., 1981, University of California Press, p. 194.

-----  
Raibaud et al., (1984), [37 A technique for integrating any DNA fragment into the chromosome of [i Escherichia coli][1 [38 , Gene 29:231-241.

-----  
Smithies et al., (1985), [37 Insertion of DNA sequences into the human chromosomal [62 -globin locus by homologous recombination[38 , Nature 317:230-234.

-----  
Thompson et al., (1989), [37 Germ line transmission and expression of a corrected HPRT gene produced by gene targeting in embryonic stem cells[38 , Cell 56:313-321.

-----  
Watson et al., in: Recombinant DNA, A Short Course, 1983, W.H. Freedman & Co., NY, NY, p. 41, 47.

-----  
Zhu et al., (1986), [37 Construction of a stable laboratory and industrial yeast expressing a foreign gene by integrative transformation using a dominant selection system[38 , Gene 50:225-237.

=====  
REFERENCES (Page 9) SERIAL NUMBER: 08/102,390  
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
<1,1>4,656,134	04/1987	Ringold		

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

WO 91/09955	07/1991	WOX		
-------------	---------	-----	--	--

WO 93/09222	05/1993	WOX		
-------------	---------	-----	--	--

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Mansour, et al. (1988) [i Nature 336[1 :348-352 [37 Disruption of the  
proto-oncogene <sup>e</sup>(i)int<sup>e</sup>(l)-2 in mouse embryo-derived stem cells: a  
general strategy for targeting mutations to non-selectable genes[38 .

-----  
Weidle, et al. (1988) [i Gene 66[1 :193-203 [37 Amplified expression  
constructs for human tissue-type plasminogen activator in Chinese  
hamster ovary cells: instability in the absence of selective  
pressure[38 .

-----  
Murnane and Yezzi (1988) [i Somatic Cell and Molecular Genetics 14[1  
:273-286 [37 Association of High Rate of Recombination with  
Amplification of Dominant Selectable Gene in Human Cells[38 .

-----  
Thomas and Capecchi (1987) [i Cell 51[1 :503-512 [37 Site-Directed  
Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells[38 .

-----  
Song, et al. (1987) [i P.N.A.S. USA 84[1 :6820-6824 [37 Accurate  
modification of a chromosomal plasmid by homologous recombination in  
human cells[38 .

-----  
Liskay, et al. (1984) [i C.S.H.S.Q.B. 49[1 :183-189 [37 Homologous  
Recombination between Repeated Chromosomal Sequences in Mouse Cells[38

-----

Rubnitz and Subramani (1984) [i Mol. and Cell. Biol. 4[1 :2253-2258  
[37 The Minimum Amount of Homology Required for Homologous  
Recombination in Mammalian Cells[38 .

-----  
Kim and Smithies (1988) [i N.A.R. 16[1 :8887-8903 [37 Recombinant  
fragment assay for gene targeting based on the polymerase chain  
reaction[38 .

-----  
Urlaub, et al. (1980) [i P.N.A.S. USA 77[1 (7):4216-4220 [37 Isolation  
of Chinese hamster cell mutants deficient in dihydrofolate reductase  
activity[38 .

-----  
Kamarck, et al. (1987) [i P.N.A.S. USA 84[1 :5350-5354 [37  
Carcinoembryonic antigen family: expression in a mouse L-cell  
transfectant and characterization of a partial cDNA in bacteriophage  
[80 gt11[38 .

=====  
\*\*\*\*\*